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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/054,331	01/22/2002	Collin A. Rich	10989-006 4772		
7590 07/30/2004			EXAMINER		
Eric J. Sosenko BRINKS HOFER GILSON & LIONE			OEN, WILLIAM L		
P.O. Box 10395		ART UNIT	PAPER NUMBER		
Chicago, IL 60610			2855		
			DATE MAILED: 07/30/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

				<u> </u>				
		Applicatio	n No.	Applicant(s)				
Office Action Summary		10/054,33	1	RICH ET AL.				
		Examiner		Art Unit				
		William L C)en	2855				
Period f	The MAILING DATE of this communication app or Reply	ears on the	cover sheet with the c	orrespondence address				
A SH THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no eve y within the statu will apply and wil , cause the appli	nt, however, may a reply be tin tory minimum of thirty (30) day I expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this communic (D) (35 U.S.C. § 133).	cation.			
Status								
1) 又	Responsive to communication(s) filed on 21 Ap	pril 2004.						
· · · —	This action is FINAL . 2b) This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>1 and 3-35</u> is/are pending in the application of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1 and 3-35</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from cor						
Applicat	ion Papers				,			
9)	The specification is objected to by the Examine	er.						
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the	• • •	•	` '				
11)□	Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Ex	· ·	= : :	•				
Priority (under 35 U.S.C. § 119							
а)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureau See the attached detailed Office action for a list of	s have beer s have beer rity docume u (PCT Rule	n received. n received in Applicati nts have been receive e 17.2(a)).	ion No ed in this National Stage	,			
	e of References Cited (PTO-892)		4) Interview Summary					
3) 🛛 Infor	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 5/25/04.		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)				

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DETAILED ACTION

Specification

The title of the invention is not descriptive in that only a *few* of the claims are directed to a *capacitive* type device. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of

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35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 and 3-35 stand rejected under 35 U.S.C. 103(a) as being unpatentable over either Neukermans (U.S. Patent No. 6,068,589), Lesinski et al. '787 (U.S. Patent No. 5,531,787), or Lesinski et al. '859 (U.S. Patent No. 5,984,859) in view of Zavracky (U.S. Patent No. 5,909,280).

Neukermans, Lesinski et al. '787, and Lesinski et al. '859 each explicitly teaches all of the essential features of the claimed implantable micro-fabricated sensor device including a substrate with a sensor integrally formed thereon, and in turn a conductive path formed on the substrate and sensor, as well as active circuitry close to and electrically connected to the sensor. It is noted that Neukermans, Lesinski et al. '787, and Lesinski et al. '859 do not explicitly teach that the sensor is a cap layer formed of boron doped silicon. Zavracky, in the same field of endeavor as Neukermans, Lesinski et al. '787, and Lesinski et al. '859, teach micro-fabricated sensors that do (at least inherently) teach devices wherein their respective sensors can be a cap layer formed of boron doped silicon. In view of the teaching by Zavracky, it would have been obvious to one having ordinary skill in the art at the time of the invention to have formed in the implantable micro-fabricated sensor systems of either Neukermans, Lesinski et al. '787, or Lesinski et al. '859, the sensor as a cap layer formed of boron doped silicon, if desired. This is further obvious because such a modification would be simple and expeditious. This is still further obvious because capacitive type sensors are notoriously well known in the sensor micro-fabrication art.

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It is again noted that Neukermans, Lesinski et al. '787, and Lesinski et al. '859 each explicitly teach all of the essential features of the claimed implantable micro-fabricated sensor device including a substrate with a sensor integrally formed thereon, a conductive path formed on the substrate and sensor, and active circuitry in proximity to and electrically connected to the sensor. It is further noted, however, that neither Neukermans, Lesinski et al. '787, nor Lesinski et al. '859 explicitly teach that the sensor is a capacitive type sensor, per se.

Zavracky, in the same field of endeavor as Neukermans, Lesinski et al. '787, and Lesinski et al. '859, however, does explicitly teach a micro-fabricated sensor that is operative as a capacitive type sensor (see, e.g., colimns 10, 15, and 16 and Figure 13 of Zavracky). In view of this explicit teaching by Zavracky, and because it would involve but a simple & expedient substitution, it would have been obvious to one having ordinary skill in the art at the time of the invention to have formed the sensor of Neukermans, Lesinski et al. '787, or Lesinski et al. '859 as a capacitive type sensor, if desired.

Response to Arguments

Applicant's arguments filed 21 April 2004 have been fully considered but they are not persuasive. The thrust of Applicants' arguments is that Zavracky teaches an optical sensor rather than a capacitive sensor, and hence cannot be combined with Neukermans, Lesinski et al. '787, or Lesinski et al. '859. This argument is not persuasive because, while Zavracky may at first blush appear to

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be a purely optical sensor, a detail examination of the patent shows that is does operate as a capacitive pressure sensor, i.e., "it does sense a capacitance corresponding to a physical parameter" (see, e.g., Figure 13 and columns 15 and 16 of Zavracky).

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to William L Oen whose telephone number is (703) 308-5161. The examiner can normally be reached on 10:30 am - 9:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 703-305-4816. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-4900.

William L Oen Primary Examiner Art Unit 2855

WL Oen 22 July 2004